

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|---|------------------------------|------------------|---------|------------------|
| L2 | 550 | (715/526).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/11/04 14:23 |
| L3 | 49 | ((("5319645") or ("5694603") or ("5778221") or ("5881286") or ("6035321") or ("6131126") or ("4791556") or ("5602963") or ("h001840") or ("6160497") or ("6163270") or ("4281393") or ("6456729") or ("6630944") or ("5247676") or ("5875329") or ("6012081") or ("5430876") or ("5758184") or ("5787281") or ("5793973") or ("5935219") or ("6006235") or ("6223207") or ("6584503") or ("5737558") or ("5715619") or ("5996072") or ("5216613") or ("5220652") or ("5619655") or ("5937393") or ("6397379") or ("5574854") or ("5848137") or ("5852813") or ("5903764") or ("4354252") or ("4355334") or ("4429299") or ("4988025") or ("5193742") or ("5285792") or ("5297286") or ("5335339") or ("5418519") or ("5734331") or ("6002450") or ("6035343"))).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/11/04 14:23 |
| L6 | 22 | ((("5999932") or ("5377354") or ("6182118") or ("5619648") or ("5917489") or ("5999932") or ("6216122") or ("6484196") or ("6044395") or ("5544360") or ("6628194") or ("6104500") or ("6640210") or ("6356633") or ("6708205") or ("6484196") or ("6145079") or ("6525747") or ("6381592") or ("5905863") or ("6427032") or ("6631398") or ("6701346") or ("6525747") or ("6381634") or ("6182118") or ("5377354") or ("5619648") or ("5917489") or ("5999932") or ("6216122"))).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/11/04 14:23 |
| L8 | 14502 | (summar\$6 or abbreviat\$6 or compress\$6) with (e\$email or (electronic adj2 message) or thread) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L9 | 12832 | (summar\$6 or abbreviat\$6 or compress\$6) with (thread) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |

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|-----|-----|--|--------------------|----|----|------------------|
| L10 | 57 | abbreviat\$6 with thread | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L11 | 1 | ((abbreviat\$6 with thread) with (e\$email)) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L12 | 56 | ((abbreviat\$6 with thread) not ((abbreviat\$6 with thread) with (e\$email))) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L13 | 151 | abbreviat\$6 with e\$email | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L14 | 150 | ((abbreviat\$6 with e\$email) not (abbreviat\$6 with thread)) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L15 | 3 | ((abbreviat\$6 with e\$email) not (abbreviat\$6 with thread)) and thread | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L16 | 147 | ((abbreviat\$6 with e\$email) not (abbreviat\$6 with thread)) not (((abbreviat\$6 with e\$email) not (abbreviat\$6 with thread)) and thread) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L17 | 96 | ((abbreviat\$6 with e\$email) not (abbreviat\$6 with thread)) not (((abbreviat\$6 with e\$email) not (abbreviat\$6 with thread)) and thread)) and (delet\$4 or remov\$4) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L18 | 6 | ((abbreviat\$6 with e\$email) not (abbreviat\$6 with thread)) not (((abbreviat\$6 with e\$email) not (abbreviat\$6 with thread)) and thread)) and ((delet\$4 or remov\$4) with (line or sentence or paragraph)) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L19 | 90 | ((abbreviat\$6 with e\$email) not (abbreviat\$6 with thread)) not (((abbreviat\$6 with e\$email) not (abbreviat\$6 with thread)) and thread)) and (delet\$4 or remov\$4) not (((abbreviat\$6 with e\$email) not (abbreviat\$6 with thread)) not (((abbreviat\$6 with e\$email) not (abbreviat\$6 with thread)) and thread)) and ((delet\$4 or remov\$4) with (line or sentence or paragraph))) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L20 | 842 | summar\$6 with e\$email | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L21 | 542 | summar\$6 with thread | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L22 | 47 | (summar\$6 with thread) and e\$email | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |

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|-----|------|---|--------------------|----|-----|------------------|
| L23 | 315 | e\$mail with thread | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L24 | 35 | (e\$mail with thread) and summarize | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L25 | 1 | (e\$mail with thread) and abbreviate | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L26 | 14 | (e\$mail with thread) and compress | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L29 | 526 | order with threads with number | US-PGPUB; USPAT | OR | OFF | 2005/11/04 14:23 |
| L30 | 12 | order with threads with number with based | US-PGPUB; USPAT | OR | OFF | 2005/11/04 14:23 |
| L31 | 327 | threads with number with based | US-PGPUB; USPAT | OR | OFF | 2005/11/04 14:23 |
| L32 | 6 | arrange with threads with number | US-PGPUB; USPAT | OR | OFF | 2005/11/04 14:23 |
| L33 | 149 | group with threads with number | US-PGPUB; USPAT | OR | OFF | 2005/11/04 14:23 |
| L34 | 120 | place with threads with number | US-PGPUB; USPAT | OR | OFF | 2005/11/04 14:23 |
| L35 | 20 | sort\$4 with threads with number | US-PGPUB; USPAT | OR | OFF | 2005/11/04 14:23 |
| L38 | 3694 | includ\$4 with predetermined with number with lines | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L39 | 2210 | includ\$4 with predetermined adj2 number with lines | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L40 | 885 | includ\$4 with predetermined adj2 number adj5 lines | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L41 | 509 | include with predetermined adj2 number adj5 lines | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L42 | 4 | (include with predetermined adj2 number adj5 lines) and thread | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L43 | 11 | (include with predetermined adj2 number adj5 lines) and e\$mail | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L44 | 12 | include with only with predetermined adj2 number adj5 lines | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L45 | 26 | including with only with predetermined adj2 number adj5 lines | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L46 | 23 | (including with only with predetermined adj2 number adj5 lines) not (include with only with predetermined adj2 number adj5 lines) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |

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|-----|------|---|-----------------|----|----|------------------|
| L47 | 26 | (includ\$4 with predetermined adj2 number adj5 lines) same (summar\$4 or abbreviat\$5 or compress\$4) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L48 | 3 | (includ\$4 with set adj2 number adj5 lines) same (summar\$4 or abbreviat\$5 or compress\$4) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L49 | 51 | (includ\$4 with predetermined with number adj5 lines) same (summar\$4 or abbreviat\$5 or compress\$4) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L50 | 25 | ((includ\$4 with predetermined with number adj5 lines) same (summar\$4 or abbreviat\$5 or compress\$4)) not ((includ\$4 with predetermined adj2 number adj5 lines) same (summar\$4 or abbreviat\$5 or compress\$4)) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L51 | 6 | (includ\$4 with calculated adj2 number adj5 lines) same (summar\$4 or abbreviat\$5 or compress\$4) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L52 | 2468 | predetermined adj number adj2 lines | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L53 | 2454 | (predetermined adj number adj2 lines) not ((includ\$4 with predetermined with number adj5 lines) same (summar\$4 or abbreviat\$5 or compress\$4)) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L54 | 31 | ((predetermined adj number adj2 lines) not ((includ\$4 with predetermined with number adj5 lines) same (summar\$4 or abbreviat\$5 or compress\$4)))) and e\$mail | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L55 | 26 | (predetermined adj number adj2 lines) with remov\$4 | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L56 | 5 | concatenat\$5 with sequence with paragraph | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L57 | 5 | concatenat\$5 with sentence with paragraph | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L58 | 1 | (concatenat\$5 with sequence with paragraph) and (concatenat\$5 with sentence with paragraph) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L59 | 9 | (concatenat\$5 with sequence with paragraph) or (concatenat\$5 with sentence with paragraph) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L60 | 29 | summar\$6 with sequence with paragraph | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |

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|-----|-------|---|--------------------|----|----|------------------|
| L61 | 5 | abbreviat\$6 with sequence with paragraph | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L63 | 42632 | includ\$4 with number with lines | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L64 | 1626 | includ\$4 with number with lines with only | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L65 | 38 | includ\$4 with number with lines with only with specific | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L66 | 86837 | ((first or 1st) with (screen or window)) and ((second or 2nd) with (window or screen)) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L67 | 56 | ((((first or 1st) with (screen or window)) and ((second or 2nd) with (window or screen))) and ((first or 1st) with (screen or window) with display\$4 with outline) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L68 | 1 | ((((first or 1st) with (screen or window)) and ((second or 2nd) with (window or screen))) and ((first or 1st) with (screen or window) with display\$4 with outline with thread) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L69 | 55 | (((((first or 1st) with (screen or window)) and ((second or 2nd) with (window or screen))) and ((first or 1st) with (screen or window) with display\$4 with outline)) not (((first or 1st) with (screen or window)) and ((second or 2nd) with (window or screen))) and ((first or 1st) with (screen or window) with display\$4 with outline with thread)) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L70 | 54 | (((((first or 1st) with (screen or window)) and ((second or 2nd) with (window or screen))) and ((first or 1st) with (screen or window) with display\$4 with outline)) not (((first or 1st) with (screen or window)) and ((second or 2nd) with (window or screen))) and ((first or 1st) with (screen or window) with display\$4 with outline with thread))) not embroidery | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L71 | 377 | ((((first or 1st) with (screen or window)) and ((second or 2nd) with (window or screen))) and ((first or 1st) with (screen or window) with display\$4 with (link or hyper\$link)) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |

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|-----|--------|--|--------------------|----|----|------------------|
| L72 | 352 | (((first or 1st) with (screen or window)) and ((second or 2nd) with (window or screen))) and ((first or 1st) with (screen or window) with display\$4 with (link or hyper\$link))) and ((second or 2nd) with (screen or window) with display\$4) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L73 | 115 | (((first or 1st) with (screen or window)) and ((second or 2nd) with (window or screen))) and ((first or 1st) with (screen or window) with display\$4 with (link or hyper\$link))) and ((second or 2nd) with (screen or window) with display\$4)) and (select\$4 with (link or hyper\$link) with display\$4 with (second or 2nd)) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L74 | 230751 | (first or 1st) with frame | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L75 | 12150 | (first or 1st) with frame with display\$4 | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L76 | 33 | (first or 1st) with frame with display\$4 with outline | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L77 | 212563 | (second or 2nd) with frame | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L78 | 28 | (((first or 1st) with frame with display\$4 with outline) and ((second or 2nd) with frame) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L79 | 20 | (first or 1st) with frame with display\$4 with thread | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L80 | 19 | (((first or 1st) with frame with display\$4 with thread) and ((second or 2nd) with frame) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L81 | 17 | (((first or 1st) with frame with display\$4 with thread) and ((second or 2nd) with frame)) not (((first or 1st) with frame with display\$4 with outline) and ((second or 2nd) with frame)) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L82 | 155155 | ((first or 1st) with frame) same ((second or 2nd) with frame) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L83 | 7346 | ((first or 1st) with frame) same ((second or 2nd) with frame) same (frame with display\$4 with (hyper\$link) or link) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |

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|------|------|--|------------------------|----|-----|------------------|
| L84 | 27 | ((first or 1st) with frame) same ((second or 2nd) with frame) same (frame with display\$4 with (hyper\$link) or link) same (display\$4 with (web\$page or page or message)) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L85 | 2 | display\$4 with (first adj2 frame) with outline with thread | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L86 | 1 | display\$4 with (first adj2 frame) with outline with (e\$mail or (electronic adj2 message)) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L87 | 1 | display\$4 with (frame) with outline with (e\$mail or (electronic adj2 message)) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L88 | 2 | display\$4 with (frame) with outline with (e\$mail or (electronic adj2 message) or thread) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L90 | 8 | display\$4 with (frame) with link with (e\$mail or (electronic adj2 message) or thread) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:50 |
| L91 | 7 | (display\$4 with (frame) with link with (e\$mail or (electronic adj2 message) or thread)) not (display\$4 with (frame) with outline with (e\$mail or (electronic adj2 message) or thread)) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L92 | 8 | request\$4 with display\$4 with predecessor | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L93 | 7 | (request\$4 with display\$4 with predecessor) not (display\$4 with (frame) with outline with (e\$mail or (electronic adj2 message) or thread)) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L94 | 21 | display\$4 with predecessor with frame | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L95 | 20 | (display\$4 with predecessor with frame) not (request\$4 with display\$4 with predecessor) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L96 | 37 | request\$4 with display\$4 with previous with message | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L98 | 550 | (715/526).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/11/04 14:23 |
| L99 | 3069 | (709/206).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/11/04 14:23 |
| L100 | 990 | (715/530).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/11/04 14:23 |

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|------|-----|--|-----------------|----|----|------------------|
| L103 | 1 | (abbreviat\$6 with thread) with (e\$mail) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L104 | 5 | abbreviat\$6 with sequence with paragraph | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L105 | 35 | (e\$mail with thread) and summarize | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L106 | 6 | (includ\$4 with calculated adj2 number adj5 lines) same (summar\$4 or abbreviat\$5 or compress\$4) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L107 | 57 | abbreviat\$6 with thread | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L108 | 1 | L107 with mail | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L109 | 1 | L107 and (electronic adj mail) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L110 | 2 | display\$4 with (first adj2 frame) with outline with thread | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L111 | 37 | request\$4 with display\$4 with previous with message | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L112 | 3 | ((abbreviat\$6 with e\$mail) not (abbreviat\$6 with thread)) and thread | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L113 | 47 | (summar\$6 with thread) and e\$mail | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L114 | 4 | (include with predetermined adj2 number adj5 lines) and thread | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L115 | 8 | request\$4 with display\$4 with predecessor | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L118 | 14 | specif\$4 with abbreviat\$5 with (e\$mail or mail) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L119 | 122 | specif\$4 with summar\$5 with (e\$mail or mail) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L120 | 2 | (specif\$4 near summar\$5) with (e\$mail or mail) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L121 | 155 | (view\$4 or display\$4) with (different near (degree or level) near detail) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L122 | 54 | (view\$4 or display\$4) adj2 (different near (degree or level) near detail) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L123 | 1 | (view\$4 or display\$4) adj2 (different near (degree or level) near detail near (abbreviat\$4 or summar\$4)) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |

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|------|-----|---|--------------------|----|-----|------------------|
| L124 | 1 | (view\$4 or display\$4) adj2 ((degree or level) near detail near (abbreviat\$4 or summar\$4)) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L125 | 5 | different near (degree or level) near detail near (abbreviat\$4 or summar\$4) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L126 | 54 | (degree or level) near detail near (abbreviat\$4 or summar\$4) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:23 |
| L127 | 1 | cascade with (degree near2 detail\$4) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:51 |
| L128 | 110 | view\$4 with (degree near2 detail\$4) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:51 |
| L129 | 10 | view\$4 with (different near2 degree near2 detail\$4) | US-PGPUB; USPAT | OR | ON | 2005/11/04 14:51 |
| L130 | 9 | 129 not 127 | US-PGPUB; USPAT | OR | ON | 2005/11/04 15:17 |
| L131 | 550 | (715/526).CCLS. | US-PGPUB; USPAT | OR | OFF | 2005/11/04 15:18 |
| L132 | 0 | 131 and (cascade with detail\$4) | US-PGPUB; USPAT | OR | ON | 2005/11/04 15:18 |
| L133 | 41 | 131 and ((summar\$5 or abbreviat\$4) with (message or text)) | US-PGPUB; USPAT | OR | ON | 2005/11/04 15:19 |
| L134 | 19 | 133 and e\$mail | US-PGPUB; USPAT | OR | ON | 2005/11/04 15:19 |
| L135 | 7 | 134 and (view\$4 with detail\$4) | US-PGPUB; USPAT | OR | ON | 2005/11/04 15:19 |


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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

 Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 [Computing curricula 2001](#)

 September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

 Full text available: [pdf\(613.63 KB\)](#) [html\(2.78 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [Status report of the graphic standards planning committee](#)

Computer Graphics staff

 August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3

Publisher: ACM Press

 Full text available: [pdf\(15.01 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

4 [TOPIC ISLANDS—a wavelet-based text visualization system](#)

Nancy E. Miller, Pak Chung Wong, Mary Brewster, Harlan Foote

 October 1998 **Proceedings of the conference on Visualization '98**

Publisher: IEEE Computer Society Press

 Full text available: [pdf\(1.98 MB\)](#) [Publisher Site](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: information retrieval, information visualization, text visualization, wavelet transform

5 Special issue: AI in engineering



D. Sriram, R. Joobbani

April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available: pdf(8.79 MB) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

6 Behavioral Aspects of Text Editors



David W. Embley, George Nagy

January 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 1

Publisher: ACM Press

Full text available: pdf(3.44 MB) Additional Information: [full citation](#), [references](#), [citations](#)

7 Spoken dialogue technology: enabling the conversational user interface



Michael F. McTear

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Publisher: ACM Press

Full text available: pdf(987.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

8 The FINITE STRING Newsletter: Abstracts of current literature

Computational Linguistics Staff

January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

Publisher: MIT Press

Full text available: pdf(6.15 MB) Additional Information: [full citation](#)
[Publisher Site](#)


9 A structural view of the Cedar programming environment



Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 8 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(6.32 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

10 [A model of multimedia information retrieval](#)



Carlo Meghini, Fabrizio Sebastiani, Umberto Straccia
September 2001 **Journal of the ACM (JACM)**, Volume 48 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(5.69 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Research on multimedia information retrieval (MIR) has recently witnessed a booming interest. A prominent feature of this research trend is its simultaneous but independent materialization within several fields of computer science. The resulting richness of paradigms, methods and systems may, on the long run, result in a fragmentation of efforts and slow down progress. The primary goal of this study is to promote an integration of methods and techniques for MIR by contributing a conceptual model ...

Keywords: Description logics, fuzzy logics, multimedia information retrieval

11 [Towards constructive text, diagram, and layout generation for information presentation](#)

John Bateman, Jörg Klein, Thomas Kamps, Klaus Reichenberger
September 2001 **Computational Linguistics**, Volume 27 Issue 3

Publisher: MIT Press



Full text available:  [pdf\(3.64 MB\)](#)  Additional Information: [full citation](#), [abstract](#), [references](#)
[Publisher Site](#)

Combining elements appropriately within a coherent page layout is a well-recognized and crucial aspect of sophisticated information presentation. The precise function and nature of layout has not, however, been sufficiently addressed within computational approaches; attention is often restricted to relatively local issues of typography and text-formatting, leaving broader issues of layout unaddressed. In this paper we focus on the selection and function of layout in pages that appropriately comb ...

12 [A computational theory of goal-directed style in syntax](#)


Chrysanne DiMarco, Graeme Hirst
September 1993 **Computational Linguistics**, Volume 19 Issue 3

Publisher: MIT Press

Full text available:  [pdf\(2.93 MB\)](#)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)
[Publisher Site](#)

The problem of style is highly relevant to computational linguistics, but current systems deal only superficially, if at all, with subtle but significant nuances of language. Expressive effects, together with their associated meaning, contained in the style of a text are lost to analysis and absent from generation. We have developed an approach to the computational treatment of style that is intended to eventually incorporate three selected components---lexical, syntactic, and semantic. In this p ...

13 Special issue on knowledge representation

 Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70

Publisher: ACM Press

Full text available:  [pdf\(13.13 MB\)](#) Additional Information: [full citation](#), [abstract](#)

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were two useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

14 Generalized fisheye views

 G. W. Furnas
April 1986 **ACM SIGCHI Bulletin , Proceedings of the SIGCHI conference on Human factors in computing systems CHI '86**, Volume 17 Issue 4

Publisher: ACM Press


Full text available:  [pdf\(672.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In many contexts, humans often represent their own "neighborhood" in great detail, yet only major landmarks further away. This suggests that such views ("fisheye views") might be useful for the computer display of large information structures like programs, data bases, online text, etc. This paper explores fisheye views presenting, in turn, naturalistic studies, a general formalism, a specific instantiation, a resulting computer program, example displays and an evalu ...


15 Proceedings of the SIGNUM conference on the programming environment for development of numerical software

 March 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue 1


Publisher: ACM Press

Full text available:  [pdf\(5.02 MB\)](#) Additional Information: [full citation](#)

16 Integrating query thesaurus, and documents through a common visual representation

 Richard H. Fowler, Wendy A. L. Fowler, Bradley A. Wilson
September 1991 **Proceedings of the 14th annual international ACM SIGIR conference on Research and development in information retrieval**


Publisher: ACM Press

Full text available:  [pdf\(1.13 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

17 Data base directions: the next steps

 John L. Berg
November 1976 **ACM SIGMOD Record , ACM SIGMIS Database**, Volume 8 , 8 Issue 4 , 2

Publisher: ACM Press

Full text available:  [pdf\(9.95 MB\)](#) Additional Information: [full citation](#), [abstract](#)

What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

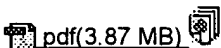
18 The rhetorical parsing of unrestricted texts: a surface-based approach

Daniel Marcu

September 2000 **Computational Linguistics**, Volume 26 Issue 3

Publisher: MIT Press

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#)

[Publisher Site](#)

Coherent texts are not just simple sequences of clauses and sentences, but rather complex artifacts that have highly elaborate rhetorical structure. This paper explores the extent to which well-formed rhetorical structures can be automatically derived by means of surface-form-based algorithms. These algorithms identify discourse usages of cue phrases and break sentences into clauses, hypothesize rhetorical relations that hold among textual units, and produce valid rhetorical structure trees for ...

19 Human-computer interface development: concepts and systems for its management



H. Rex Hartson, Deborah Hix

March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Publisher: ACM Press

Full text available: pdf(7.97 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

20 Computer Software and Copyright



Calvin N. Mooers

January 1975 **ACM Computing Surveys (CSUR)**, Volume 7 Issue 1

Publisher: ACM Press

Full text available: pdf(2.63 MB)

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